

Title (en)

Multiple clutch unit

Title (de)

Mehrfachkupplungsaggregat

Title (fr)

Ensemble d'embrayage multiple

Publication

EP 1464859 A3 20050525 (DE)

Application

EP 04007516 A 20040329

Priority

DE 10315393 A 20030404

Abstract (en)

[origin: EP1464859A2] The multiple clutch unit has first (2) and second (3) plate clutches connected to first (21) and second (22) shafts respectively. The clutches are hydraulically operated by piston and cylinder units (17,19,68,70), one of which, and especially the one allocated to the first clutch, includes a cup-form cylinder which is connected to especially the first shaft torsionally fixed but axially movable. The inner chamber of the cup-form cylinder is pressurized through a bore (62) in the respective shaft. An independent claim is included for a transmission including the aforesaid plate clutch unit.

IPC 1-7

F16D 21/06; F16D 25/10

IPC 8 full level

F16D 21/06 (2006.01)

CPC (source: EP US)

F16D 21/06 (2013.01 - US); **F16D 25/10** (2013.01 - EP); **F16D 2021/0661** (2013.01 - EP US)

Citation (search report)

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- [A] US 2586220 A 19520219 - CHRIS GERST
- [A] DE 1123567 B 19620208 - KLAUE HERMANN
- [A] US 3047115 A 19620731 - LEE ARTHUR L, et al

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1464859 A2 20041006; **EP 1464859 A3 20050525**; **EP 1464859 B1 20080528**; AT E397163 T1 20080615; DE 102004015214 A1 20041021; DE 502004007256 D1 20080710; US 2005000774 A1 20050106; US 7147092 B2 20061212

DOCDB simple family (application)

EP 04007516 A 20040329; AT 04007516 T 20040329; DE 102004015214 A 20040329; DE 502004007256 T 20040329; US 81745704 A 20040403